

09/957483
STN Search Summary

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FILE 'CAPLUS' ENTERED AT 16:16:16 ON 19 MAR 2004

L1 56 S EPOTHILONE (P) (PURIF? OR ISOLAT?)
L2 5 S L1 AND (RESIN OR CHROMATOGRAPHY)
L3 2 S EPOTHILONE AND RESIN AND METHANOL
L4 100 S EPOTHILONE (2W) D
L5 8 S L4 AND (CRYSTAL?)
L6 1 S L5 AND WATER
L7 3 S XANTHUS AND OLEATE

L2 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:995507 CAPLUS

TI Method for separating and purifying epothilone from
the ferment liquor of Myxobacteria

IN Hu, Wei; Li, Yuezong; Liu, Xinli; Han, Guanjun

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 19 pp.

LA Chinese

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1369484	A	20020918	CN 2002-110067	20020207
PRAI	CN 2002-110067		20020207		

L2 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:449686 CAPLUS

TI Process for the isolation and purification of
epothilones

IN Kuesters, Ernst; Unternaehrer, Heinz

SO PCT Int. Appl., 27 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002046196	A1	20020613	WO 2001-EP14771	20011205
	AU 2002024936	A5	20020618	AU 2002-24936	20011205
	EP 1345944	A1	20030924	EP 2001-994791	20011205
	BR 2001015991	A	20040113	BR 2001-15991	20011205
	NO 2003002591	A	20030606	NO 2003-2591	20030606
	US 2004054188	A1	20040318	US 2003-433808	20030606
PRAI	GB 2000-29895	A	20001207		
	WO 2001-EP14771	W	20011205		

L2 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1997:330310 CAPLUS

TI Synthesis of epothilones A and B in solid and solution phase

AU Nicolaou, K. C.; Winssinger, N.; Pastor, J.; Ninkovic, S.; Sarabia, F.;
He, Y.; Vourloumis, D.; Yang, Z.; Li, T.; Giannakakou, P.; Hamel, E.

SO Nature (London) (1997), 387(6630), 268-272

L2 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1996:473443 CAPLUS

TI Antibiotics from gliding bacteria. 77. Epothilone A and B -
novel 16-membered macrolides with cytotoxic activity: isolation,
crystal structure, and conformation in solution

AU Hoefle, Gerhard; Bedorf, Norbert; Steinmetz, Heinrich; Schomburg, Dietmar;
Gerth, Klaus; Reichenbach, Hans

SO Angewandte Chemie, International Edition in English (1996), 35(13/14),

1567-1569

=> d kwic 3-5

- L2 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Process for the isolation and purification of epothilones
- AB The invention relates to a desorption process for epothilones, esp. epothilone A and/or epothilone B, from resins and new prodn., work-up or purifn. processes or manufg. methods for epothilones comprising said desorption process, as well as the use of certain solvents for the desorption of epothilones from resins.
- ST epothilone purifn resin column
- IT 71-43-2, Benzene, processes 91-20-3, Naphthalene, processes 108-88-3, Toluene, processes 55353-13-4, Diaion HP 20 104219-63-8, Amberlite XAD-16
- RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PROC (Process)
(process for the isolation and purifn. of epothilones)
- IT 152044-53-6P, Epothilone A 152044-54-7P, Epothilone B
- RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PUR (Purification or recovery); PREP (Preparation); PROC (Process)
(process for the isolation and purifn. of epothilones)
- L2 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
- AB Epothilones A (I; R = H) and B (I: R = Me), two compds. that were recently isolated from myxobacterium Sorangium cellulosum strain 90, have generated intense interest among chemists, biologists and clinicians owing to the structural complexity, . . . even in taxol-resistant cell lines. Following the structural elucidation of these mols. by X-ray crystallog. in 1996, several synthesis of epothilones A and B have been reported, indicative of the potential importance of these mols. in the cancer field. Here we report the first solid-phase synthesis of epothilone A, the total synthesis of epothilone B, and the generation of a small epothilone library. The solid-phase synthesis applied here to epothilone A could open up new possibilities in natural-product synthesis and, together with soln.-phase synthesis of other epothilones, paves the way for the generation of large combinatorial libraries of these important mols. for biol. screening.
- IT 84457-52-3DP, Merrifield resin-bound 187283-49-4P
187283-52-9P 188260-10-8P 189453-35-8P 189453-40-5P 190369-71-2DP, Merrifield resin-bound 190369-73-4DP, Merrifield resin-bound 190369-77-8DP, Merrifield resin-bound 190369-79-0DP, Merrifield resin-bound 190369-80-3DP, Merrifield resin-bound 190369-82-5P 190369-85-8P 190369-96-1P 190370-02-6P 190370-04-8P 190370-06-0P 190370-08-2P
- RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of a combinatorial library via solid-phase synthesis of epothilone A and soln.-phase synthesis of epothilone B)

L2 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Antibiotics from gliding bacteria. 77. Epothilone A and B -
 novel 16-membered macrolides with cytotoxic activity: isolation,
 crystal structure, and conformation in solution
 AB Epothilones A and B (I and II, resp.), macrolide antibiotics
 with antifungal and cytotoxic activity, were isolated from
 Sorangium cellulosum ext. by chromatog. methods and crystd. The
 crystal structure, abs. configuration, and soln. conformation of the
 epothilones are reported.
 ST epothilone A B isolation structure Sorangium;
 conformation epothilone A B Sorangium; crystal structure
 epothilone A B Sorangium
 IT Sorangium cellulosum
 (isolation and structure of epothilones A and B of)
 IT 152044-53-6P, Epothilone A 152044-54-7P, Epothilone
 B
 RL: PRP (Properties); PUR (Purification or recovery); PREP (Preparation)
 (isolation, crystal structure, and soln. conformation of
 epothilones A and B of Sorangium cellulosum)

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:144255 CAPLUS
 DN 136:324108
 TI Large-Scale Isolation and Crystallization of Epothilone
 D From Myxococcus xanthus Cultures
 AU Arslanian, Robert L.; Parker, Charles D.; Wang, Peter K.; McIntire, James
 R.; Lau, Janice; Starks, Courtney; Licari, Peter J.
 SO Journal of Natural Products (2002), 65(4), 570-572

L5 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:816957 CAPLUS
 TI Production of polyketides
 IN Arslanian, Robert L.; Ashley, Gary; Frykman, Scott; Julien, Bryan; Katz,
 Leonard; Khosla, Chaitan; Lau, Janice; Licardi, Peter J.; Regentin, Rika;
 Santi, Daniel; Tang, Li
 SO PCT Int. Appl., 221 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2001083800	A2	20011108	WO 2001-US13793	20010426
	WO 2001083800	C1	20030103		
	WO 2001083800	A3	20030410		
	WO 2001083800	C2	20030912		
	US 6410301	B1	20020625	US 2000-560367	20000428
	US 2002156110	A1	20021024	US 2001-825876	20010403
	US 6589968	B2	20030708		
	US 6489314	B1	20021203	US 2001-825856	20010403
	US 2002193361	A1	20021219		
	AU 2001095195	A5	20011112	AU 2001-95195	20010426
	EP 1320611	A2	20030625	EP 2001-973782	20010426
	US 2003073205	A1	20030417	US 2001-957483	20010919
PRAI	US 2000-560367	A	20000428		
	US 2000-232696P	P	20000914		
	US 2000-257517P	P	20001221		
	US 2001-269020P	P	20010213		
	US 2001-825856	A	20010403		
	US 2001-825876	A	20010403		

US 1998-109401P P 19981120
 US 1999-119386P P 19990210
 US 1999-122620P P 19990303
 US 1999-130560P P 19990422
 US 1999-443501 A2 19991119
 WO 1999-US27438 A2 19991119
 WO 2001-US13793 W 20010426
 OS MARPAT 135:343416

L5 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:597944 CAPLUS
 DN 133:321737
 TI A Novel Application of a Pd(0)-Catalyzed Nucleophilic Substitution
 Reaction to the Regio- and Stereoselective Synthesis of Lactam Analogues
 of the Epothilone Natural Products
 AU Borzilleri, Robert M.; Zheng, Xiaoping; Schmidt, Robert J.; Johnson, James
 A.; Kim, Soong-Hoon; DiMarco, John D.; Fairchild, Craig R.; Gougoutas,
 Jack Z.; Lee, Francis Y. F.; Long, Byron H.; Vite, Gregory D.
 SO Journal of the American Chemical Society (2000), 122(37), 8890-8897

L5 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:273850 CAPLUS
 TI Synthesis, Structure Proof, and Biological Activity of Epothilone
 Cyclopropanes
 AU Johnson, James; Kim, Soong-Hoon; Bifano, Marc; DiMarco, John; Fairchild,
 Craig; Gougoutas, Jack; Lee, Francis; Long, Byron; Tokarski, John; Vite,
 Gregory
 SO Organic Letters (2000), 2(11), 1537-1540

L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:174509 CAPLUS
 TI Preparation of epothilone derivatives for treatment of diseases or
 conditions characterized by cellular hyperproliferation, such as cancer
 IN Ashley, Gary; Arslanian, Robert L.; Carney, John; Metcalf, Brian; Tang, Li
 SO U.S. Pat. Appl. Publ., 54 pp., Cont.-in-part of U.S. Ser. No. 825,856.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003045711	A1	20030306	US 2002-115198	20020402
US 2002156110	A1	20021024	US 2001-825876	20010403
US 6589968	B2	20030708		
US 6489314	B1	20021203	US 2001-825856	20010403
US 2002193361	A1	20021219		
PRAI US 2001-269020P	P	20010213		
US 2001-825856	A2	20010403		
US 2001-825876	A2	20010403		

 OS MARPAT 138:221394

L7 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:370405 CAPLUS
 TI Optimizing the heterologous production of epothilone D in Myxococcus
 xanthus
 AU Lau, Janice; Frykman, Scott; Regentin, Rika; Ou, Sally; Tsuruta, Hiroko;
 Licari, Peter
 SO Biotechnology and Bioengineering (2002), 78(3), 280-288

L7 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:816957 CAPLUS

TI	Production of polyketides				
IN	Arslanian, Robert L.; Ashley, Gary; Frykman, Scott; Julien, Bryan; Katz, Leonard; Khosla, Chaitan; Lau, Janice; Licardi, Peter J.; Regentin, Rika; Santi, Daniel; Tang, Li				
SO	PCT Int. Appl., 221 pp.				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2001083800	A2	20011108	WO 2001-US13793	20010426
	WO 2001083800	C1	20030103		
	WO 2001083800	A3	20030410		
	WO 2001083800	C2	20030912		
	US 6410301	B1	20020625	US 2000-560367	20000428
	US 2002156110	A1	20021024	US 2001-825876	20010403
	US 6589968	B2	20030708		
	US 6489314	B1	20021203	US 2001-825856	20010403
	US 2002193361	A1	20021219		
	AU 2001095195	A5	20011112	AU 2001-95195	20010426
	EP 1320611	A2	20030625	EP 2001-973782	20010426
	US 2003073205	A1	20030417	US 2001-957483	20010919
PRAI	US 2000-560367	A	20000428		
	US 2000-232696P	P	20000914		
	US 2000-257517P	P	20001221		
	US 2001-269020P	P	20010213		
	US 2001-825856	A	20010403		
	US 2001-825876	A	20010403		
	US 1998-109401P	P	19981120		
	US 1999-119386P	P	19990210		
	US 1999-122620P	P	19990303		
	US 1999-130560P	P	19990422		
	US 1999-443501	A2	19991119		
	WO 1999-US27438	A2	19991119		
	WO 2001-US13793	W	20010426		
OS	MARPAT 135:343416				

WEST Search History

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DATE: Friday, March 19, 2004

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<input type="checkbox"/>	L10	xanthus and (methyl adj oleate)	6
<input type="checkbox"/>	L9	xanthus same oleate	5
<input type="checkbox"/>	L8	xanthus and oleate	36
<input type="checkbox"/>	L7	L6 and (crystal\$ adj20 water)	13
<input type="checkbox"/>	L6	l1 and crystal\$	112
<input type="checkbox"/>	L5	l1 and crystal\$	112
<input type="checkbox"/>	L4	L3 and (resin adj20 methanol)	9
<input type="checkbox"/>	L3	L1 and (resin or chromatograph\$)	132
<input type="checkbox"/>	L2	L1 and resin	47
<input type="checkbox"/>	L1	epothilone same (purif\$ or isolat\$)	167

END OF SEARCH HISTORY